

WHAT IS CLAIMED IS:

1                   1.     A multi-substrate package comprising:  
2                   a housing;  
3                   a stack of substrates disposed within the housing; and  
4                   an array of connectors including a plurality of channels supported by  
5     the housing, wherein the connectors are movable between extended and retracted  
6     positions within the housing and wherein the connectors connect multiple substrates  
7     in the extended positions of the connectors to communicate the multiple substrates  
8     along the channels.

1                   2.     The package as claimed in claim 1, further comprising at least  
2     one actuator for moving the connectors between the extended and retracted  
3     positions.

1                   3.     The package as claimed in claim ~~3~~<sup>2</sup>, wherein the connectors are  
2     flexible connectors and wherein the at least one actuator flexes the connectors so that  
3     the connectors move between the extended and retracted positions.

1                   4.     The package as claimed in claim 1, wherein the channels  
2     include fluid channels and the connectors include fluid connectors.

1                   5.     The package as claimed in claim 1, wherein the channels  
2     include electrical channels and the connectors include electrical connectors.

1                   6.     The package as claimed in claim 1, further comprising at least  
2     one resilient sheet for separating the multiple substrates and applying a force  
3     between the connectors and the substrates required for proper communication of the  
4     multiple substrates.

1                   7.     The package as claimed in claim 6, wherein the housing  
2     includes a cover for applying a force to the stack and wherein the at least one  
3     resilient sheet is compressed by the force to the stack so that the at least one resilient